

WHAT IS CLAIMED:

1. A vaccine or immunogenic composition comprising at least a first isolated PspA or immunogenic fragments thereof and a second isolated PspA or immunogenic fragments thereof from *S. pneumoniae* strains from at least two PspA families, wherein the at least two families comprise one or more clades selected from the group consisting of clade 1, clade 2, clade 3, clade 4, clade 5, and clade 6.

2. The vaccine or immunogenic composition of claim 1, wherein the composition comprises isolated PspA or immunogenic fragments thereof from clade 1.

3. The vaccine or immunogenic composition of claim 2, wherein the composition comprises isolated PspA or immunogenic fragments thereof having an amino acid sequence of SEQ ID NO: 1.

4. The vaccine or immunogenic composition of claim 2, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain BG6692 having an amino acid sequence of SEQ ID NO: 2.

5. The vaccine or immunogenic composition of claim 2, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain BG8838 having an amino acid sequence of SEQ ID NO: 3.

6. The vaccine or immunogenic composition of claim 2, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain BG9739 having an amino acid sequence of SEQ ID NO: 4.

7. (new) The vaccine or immunogenic composition of claim 2, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain DBL6A having an amino acid sequence of SEQ ID NO: 5.

8. (new) The vaccine or immunogenic composition of claim 2, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain L81905 having an amino acid sequence of SEQ ID NO: 6.

9. The vaccine or immunogenic composition of claim 2, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain BG8743 having an amino acid sequence of SEQ ID NO: 7.

10. The vaccine or immunogenic composition of claim 2, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain DBL1 having an amino acid sequence of SEQ ID NO: 8.

11. The vaccine or immunogenic composition of claim 2, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain AC94 having an amino acid sequence of SEQ ID NO: 9.

12. The vaccine or immunogenic composition of claim 1, wherein the composition comprises isolated PspA or immunogenic fragments thereof from clade 2.

13. The vaccine or immunogenic composition of claim 12, wherein the composition comprises isolated PspA or immunogenic fragments thereof having an amino acid sequence of SEQ ID NO: 10.

14. The vaccine or immunogenic composition of claim 12, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain EF10197 having an amino acid sequence of SEQ ID NO: 11.

15. The vaccine or immunogenic composition of claim 12, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain WU2 having an amino acid sequence of SEQ ID NO: 13.

16. The vaccine or immunogenic composition of claim 12, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain DBL5 having an amino acid sequence of SEQ ID NO: 14.

17. The vaccine or immunogenic composition of claim 12, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain EF6796 having an amino acid sequence of SEQ ID NO: 15.

18. The vaccine or immunogenic composition of claim 12, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain 0922134 having an amino acid sequence of SEQ ID NO: 16.

19. The vaccine or immunogenic composition of claim 12, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain BG9163 having an amino acid sequence of SEQ ID NO: 17.

20. The vaccine or immunogenic composition of claim 1, wherein the composition comprises isolated PspA or immunogenic fragments thereof from clade 3.

21. The vaccine or immunogenic composition of claim 20, wherein the composition comprises isolated PspA or immunogenic fragments thereof having an amino acid sequence of SEQ ID NO: 18.

22. The vaccine or immunogenic composition of claim 20, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain AC122 having an amino acid sequence of SEQ ID NO: 19.

23. The vaccine or immunogenic composition of claim 20, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain EF3296 having an amino acid sequence of SEQ ID NO: 20.

24. The vaccine or immunogenic composition of claim 20, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain BG8090 having an amino acid sequence of SEQ ID NO: 21.

25. The vaccine or immunogenic composition of claim 1, wherein the composition comprises isolated PspA or immunogenic fragments thereof from clade 4.

26. The vaccine or immunogenic composition of claim 25, wherein the composition comprises isolated PspA or immunogenic fragments thereof having an amino acid sequence of SEQ ID NO: 22.

27. The vaccine or immunogenic composition of claim 25, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain BG11703 having an amino acid sequence of SEQ ID NO: 23.

28. The vaccine or immunogenic composition of claim 25, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain BG7817 having an amino acid sequence of SEQ ID NO: 24.

29. The vaccine or immunogenic composition of claim 25, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain EF5668 having an amino acid sequence of SEQ ID NO: 25.

30. The vaccine or immunogenic composition of claim 25, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain BG7561 having an amino acid sequence of SEQ ID NO: 26.

31. The vaccine or immunogenic composition of claim 1, wherein the composition comprises isolated PspA or immunogenic fragments thereof from clade 5.

32. The vaccine or immunogenic composition of claim 31, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain ATCC6303 having an amino acid sequence of SEQ ID NO: 27.

33. The vaccine or immunogenic composition of claim 1, wherein the composition comprises isolated PspA or immunogenic fragments thereof from clade 6.

34. The vaccine or immunogenic composition of claim 33, wherein the composition comprises isolated PspA or immunogenic fragments thereof from strain BG6380 having an amino acid sequence of SEQ ID NO: 28.